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OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			VO, QUANG N	
ALEXANDRIA, VA 22314		,	ART UNIT	PAPER NUMBER .
			2625	
	•	•	NOTIFICATION DATE	DELIVERY MODE
			01/02/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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		Application No.	Applicant(s)	
		10/816,878	ISHIHARA, HIROSHI	
	Office Action Summary	Examiner	Art Unit	
		Quang N. Vo	2625	
Period fo	The MAILING DATE of this communication app	pears on the cover sheet with the c	orrespondence address	
A SHI WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA isions of time may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. (D) (35 U.S.C. § 133).	
Status				
2a)⊠	Responsive to communication(s) filed on <u>01 Not</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Dispositi	on of Claims			
5)	Claim(s) 1-30 and 41-53 is/are pending in the adaptive formula (s) 1-30 and 41-53 is/are pending in the adaptive formula (s) 1-30 and 41-50 and 52 is/are with a claim(s) is/are allowed. Claim(s) 1-30,41-50 and 53 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) acceptable and a specific formula (s) including the correct.	r election requirement. r. epted or b) □ objected to by the bedrawing(s) be held in abeyance. See ion is required if the drawing(s) is objected to by the bedrawing(s) is objected to be a consideration.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
	The oath or declaration is objected to by the Ex	animer. Note the attached Office	Action of 101111 1 TO-102.	
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
2) Notice (3) Information	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	

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DETAILED ACTION

Applicant's election without traverse of claims the restriction requirement in the reply filed on 11/1/2007 is acknowledged.

Claims 51 and 52 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species II, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 11/1/2007.

Response to Amendment

Applicant argues that Yokochi does not teach or suggest "a converting condition designator configured to designate one of predetermined converting condition for the pixels determined as achromatic by the chromatic tester based on an image property obtained by the obtainer".

In reply, Yokochi teach a converting condition designator to designate one of predetermined converting condition (e.g., black formed by superimposed CMYK by the ink-jet printing device or by reproducing perfectly black based on whether the image is character, paragraph 0228) for the pixels determined as achromatic (e.g., for determining whether or not the subject pixel is achromatic, paragraph 0015 is used to determine the black character of figure 15) by the chromatic tester based on an image property obtained by the obtainer means (e.g., image property/chroma component, paragraph 0015).

Claim Rejections - 35 USC § 102

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-30, 41-50, and 53 are rejected under 35 U.S.C. 102(e) as being anticipated by Yokochi (Pub. No.: US 2003/0202193).

With regard to claim 1, Yokochi discloses an image processing apparatus (e.g., image processing device, paragraph 0002) for generating graphics data according to picture description instructions based on original image data of full color, comprising: a chromatic tester configured to determine whether a pixel of the original image data is chromatic or achromatic (e.g., perform judgment as to whether or not each pixel is achromatic, paragraph 0014); an obtainer configured to obtain an image property of the pixel (e.g., including digital input signals for at least three color component indicative of a color state of the corresponding pixel, paragraph 0015); a color converter configured to convert the pixel into CMYK data for printing according to one of a plurality of predetermined converting conditions (e.g., converting the corrected RGB data sets into print data sets C', M', Y', K1), paragraphs 0055, 0056 or perfect black of paragraph 0228); and a converting condition designator to designate one of predetermined converting condition (e.g., black formed by superimposed CMYK by the ink-jet printing

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device or by reproducing perfectly black based on whether the image is character, paragraph 0228) for the pixels determined as achromatic (e.g., for determining whether or not the subject pixel is achromatic, paragraph 0015 is used to determine the black character of figure 15) by the chromatic tester based on an image property obtained by the obtainer means (e.g., image property/chroma component, paragraph 0015).

With regard to claim 2, Yokochi discloses wherein said chromatic tester determines the pixel as achromatic when values of RGB color components are identical to each other (paragraph 0109).

With regard to claim 3, Yokochi discloses wherein said chromatic tester determines the pixel as achromatic when differences in data value among RGB components of the pixel fall within respective predetermined threshold values (paragraph 0109).

With regard to claim 4, Yokochi discloses wherein the predetermined condition used for the pixel determined as achromatic is any one of a K monochrome converting condition using a black color and a normal converting condition using cyan, magenta, yellow, and black colors (paragraph 0056).

With regard to claim 5, Yokochi discloses wherein said obtainer checks pixels in a predetermined area in the original image data to obtain the image property of the pixel (paragraphs 0015, 0016).

With regard to claim 6, Yokochi discloses wherein the image property of the pixel is either one of a first image property of including any chromatic pixel in the pixels in the predetermined area and a second property of not including any

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chromatic pixel in the pixels in the predetermined area, and said converting condition designator designates the K monochrome converting condition to the pixel having the first image property (paragraphs 0072, 0077).

With regard to claim 7, Yokochi discloses wherein the predetermined area comprises a predetermined number of sequential pixels immediately preceding the pixel in a main scanning direction (paragraph 0015).

With regard to claim 8, Yokochi discloses wherein the predetermined area comprises a predetermined number of sequential pixels immediately succeeding the pixel in a main scanning direction (paragraph 0016).

With regard to claim 9, Yokochi discloses wherein the predetermined area comprises a predetermined number of sequential pixels immediately preceding and succeeding the pixel in a main scanning direction (paragraphs 0015, 0090).

With regard to claim 10, Yokochi discloses wherein the predetermined area is formed with an m-by-n matrix surrounding the pixel, m and n being positive integer values greater than zero (paragraph 0090).

With regard to claim 11, Yokochi discloses an image processing apparatus (e.g., image processing method, paragraph 0002) for generating graphics data according to picture description instructions based on original image data of full color, comprising: chromatic checking means for checking to determine whether a pixel of the original image data is chromatic or achromatic (e.g., perform judgment as to whether or not each pixel is achromatic, paragraph 0014); obtaining means for obtaining an image property of the pixel (e.g., including digital input signals for at least three color component indicative of a

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color state of the corresponding pixel, paragraph 0015); color converting means for converting the pixel into CMYK data for printing according to one of a plurality of predetermined converting conditions (e.g., converting the corrected RGB data sets into print data sets C', M', Y', K1), paragraphs 0055, 0056 or perfect black of paragraph 0228); and a converting condition designator to designate one of predetermined converting condition (e.g., black formed by superimposed CMYK by the ink-jet printing device or by reproducing perfectly black based on whether the image is character, paragraph 0228) for the pixels determined as achromatic (e.g., for determining whether or not the subject pixel is achromatic, paragraph 0015 is used to determine the black character of figure 15) by the chromatic tester based on an image property obtained by the obtainer means (e.g., image property/chroma component, paragraph 0015).

With regard to claim 12, Yokochi discloses wherein said chromatic checking means determines the pixel as achromatic when values of RGB color components are identical to each other (paragraphs 0082, 0109).

With regard to claim 13, Yokochi discloses wherein said wherein said chromatic checking means determines the pixel as achromatic when differences in data value among RGB components of the pixel fall within respective predetermined threshold values (paragraph 0109).

With regard to claim 14, Yokochi discloses wherein the predetermined condition applied to the pixel determined as achromatic is any one of a K monochrome converting condition using a black color and a normal converting condition using cyan, magenta, yellow, and black colors (paragraph 0056).

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With regard to claim 15, Yokochi discloses wherein said obtaining means checks pixels in a predetermined area in the original image data to obtain the image property of the pixel (paragraphs 0015, 0016).

With regard to claim 16, Yokochi discloses wherein the image property of the pixel is either one of a first image property of including any chromatic pixel in the pixels in the predetermined area and a second property of not including any chromatic pixel in the pixels in the predetermined area, and said converting condition designating means designates the K monochrome converting condition to the pixel having the first image property (paragraphs 0072, 0077).

With regard to claim 17, Yokochi discloses wherein the predetermined area comprises a predetermined number of sequential pixels immediately preceding the pixel in a main scanning direction (paragraph 0015).

With regard to claim 18, Yokochi discloses wherein in the predetermined area comprises a predetermined number of sequential pixels immediately succeeding the pixel in a main scanning direction (paragraph 0016).

With regard to claim 19, Yokochi discloses wherein the predetermined area comprises a predetermined number of sequential pixels immediately preceding and succeeding the pixel in a main scanning direction (paragraphs 0015, 0090).

With regard to claim 20, Yokochi discloses wherein the predetermined area is formed with an m-by-n matrix surrounding the pixel, m and n being positive integer values greater than zero (paragraph 0090).

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With regard to claim 21, Yokochi discloses a graphics data processing method (e.g., image processing device, paragraph 0002) for generating graphics data according to picture description instructions based on original image data of full color, the graphics data processing method comprising the steps of: determining whether a pixel of the original image data is chromatic or achromatic (e.g., perform judgment as to whether or not each pixel is achromatic, paragraph 0014); obtaining an image property of the pixel (e.g., including digital input signals for at least three color component indicative of a color state of the corresponding pixel, paragraph 0015); and a converting condition designator to designate one of predetermined converting condition (e.g., black formed by superimposed CMYK by the ink-jet printing device or by reproducing perfectly black based on whether the image is character, paragraph 0228) for the pixels determined as achromatic (e.g., for determining whether or not the subject pixel is achromatic, paragraph 0015 is used to determine the black character of figure 15) by the chromatic tester based on an image property obtained by the obtainer means (e.g., image property/chroma component, paragraph 0015); and converting the pixel into CMYK data according to the designated one of the plurality of predetermined converting conditions (e.g., converting the corrected RGB data sets into print data sets C', M', Y', K1), paragraphs 0055, 0056 or perfect black of paragraph 0228).

With regard to claim 22, Yokochi discloses wherein said chromatic checking step determines the pixel as achromatic when values of RGB color components are identical to each other (paragraphs 0082, 0109).

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With regard to claim 23, Yokochi discloses wherein said chromatic checking step determines the pixel as achromatic when differences in data value among RGB components of the pixel fall within respective predetermined threshold values (paragraph 0109).

With regard to claim 24, Yokochi discloses wherein the predetermined condition applied to the pixel determined as achromatic is any one of a K monochrome converting condition using a black color and a normal converting condition using cyan, magenta, yellow, and black colors (paragraph 0056).

With regard to claim 25, Yokochi discloses wherein said obtaining step checks pixels in a predetermined area in the original image data to obtain the image property of the pixel (paragraphs 0015, 0016).

With regard to claim 26, Yokochi discloses wherein the image property of the pixel is either one of a first image property of including any chromatic pixel in the pixels in the predetermined area and a second property of not including any chromatic pixel in the pixels in the predetermined area, and said designating step designates the K monochrome converting condition to the pixel having the first image property (paragraphs 0072, 0077).

With regard to claim 27, Yokochi discloses wherein the predetermined area comprises a predetermined number of sequential pixels immediately preceding the pixel in a main scanning direction (paragraph 0015).

With regard to claim 28, Yokochi discloses wherein the predetermined area comprises a predetermined number of sequential pixels immediately succeeding the pixel in a main scanning direction (paragraph 0016).

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With regard to claim 29, Yokochi discloses wherein the predetermined area comprises a predetermined number of sequential pixels immediately preceding and succeeding the pixel in a main scanning direction (paragraphs 0015, 0090).

With regard to claim 30, Yokochi discloses wherein the predetermined area is formed with an m-by-n matrix surrounding the pixel, m and n being positive integer values greater than zero (paragraph 0090).

With regard to claim 41, Yokochi discloses a computer readable medium storing computer instructions for causing a computer to perform an image processing method (paragraph 0054), said method comprising: chromatic checking to determine whether a pixel of the original image data is chromatic or achromatic (e.g., perform judgment as to whether or not each pixel is achromatic, paragraph 0014); obtaining an image property of the pixel (e.g., including digital input signals for at least three color component indicative of a color state of the corresponding pixel, paragraph 0015); and a converting condition designator to designate one of predetermined converting condition (e.g., black formed by superimposed CMYK by the ink-jet printing device or by reproducing perfectly black based on whether the image is character, paragraph 0228) for the pixels determined as achromatic (e.g., for determining whether or not the subject pixel is achromatic, paragraph 0015 is used to determine the black character of figure 15) by the chromatic tester based on an image property obtained by the obtainer means (e.g., image property/chroma component, paragraph 0015); and converting the pixel into CMYK data for printing according to the designated one

of the plurality of predetermined converting conditions (e.g., converting the corrected RGB data sets into print data sets C', M', Y', K1), paragraphs 0055, 0056 or perfect black of paragraph 0228).

With regard to claim 42, Yokochi discloses wherein said chromatic checking step determines the pixel as achromatic when values of RGB color components are identical to each other (paragraphs 0082, 0109).

With regard to claim 43, Yokochi discloses wherein said chromatic checking step determines the pixel as achromatic when differences in data value among RGB components of the pixel fall within respective predetermined threshold values (paragraph 0109).

With regard to claim 44, Yokochi discloses wherein the predetermined condition applied to the pixel determined as achromatic is any one of a K monochrome converting condition using a black color and a normal converting condition using cyan, magenta, yellow, and black colors (paragraph 0056).

With regard to claim 45, Yokochi discloses wherein said obtaining step checks pixels in a predetermined area in the original image data to obtain the image property of the pixel (paragraphs 0015, 0016).

With regard to claim 46, Yokochi discloses wherein the image property of the pixel is either one of a first image property of including any chromatic pixel in the pixels in the predetermined area and a second property of not including any chromatic pixel in the pixels in the predetermined area, and said designating step designates the K monochrome converting condition to the pixel having the first image property (paragraphs 0072, 0077).

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With regard to claim 47, Yokochi discloses wherein the predetermined area comprises a predetermined number of sequential pixels immediately preceding the pixel in a main scanning direction (paragraph 0015).

With regard to claim 48, Yokochi discloses wherein the predetermined area comprises a predetermined number of sequential pixels immediately succeeding the pixel in a main scanning direction (paragraph 0016).

With regard to claim 49, Yokochi discloses wherein the predetermined area comprises a predetermined number of sequential pixels immediately preceding and succeeding the pixel in a main scanning direction (paragraphs 0015, 0090).

With regard to claim 50, Yokochi discloses wherein the predetermined area is formed with an m-by-n matrix surrounding the pixel, m and n being positive integer values greater than zero (paragraph 0090).

With regard to claim 53, Yokochi discloses wherein the obtainer is configured to obtain the image property of the pixel by determining whether the pixel is part of a photographic image (e.g., black formed by superimposing cyan, magenta, and yellow (pixel is part of a photographic image) is different from black monochrome, paragraph 0228).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang N. Vo whose telephone number is 5712701121. The examiner can normally be reached on 7:30AM-5:00PM Monday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, King Y. Poon can be reached on 5712727440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Quang N. Vo 12/13/07

Patent Examiner

Quanglo

SUPERVISORY PATENT EXAMINER